

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Patent Application of:

J.J. Garcia-Luna-Aceves, et al.

Application No.: 09/844,856

Filed: April 26, 2001

For: SYSTEM AND METHOD FOR USING NETWORK LAYER

UNIFORM RESOURCE LOCATOR

ROUTING TO LOCATE THE CLOSEST SERVER CARRYING

SPECIFIC CONTENT

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Examiner: Chankong, Dohm

Art Unit: 2152

EXPRESS MAIL STATEMENT

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Sir:

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Pursuant to 37 C.F.R. § 1.97, the submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made and is not to be construed as an admission that the information cited in this statement is material to patentability.

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submission of the Information Disclosure Statement.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Date: Octobr 3), 2006

Lester J. Vincent Reg. No. 31,460

12400 Wilshire Boulevard Seventh Floor Los Angeles, California 90025 (408) 720-8300

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Substitute	for Form 1449	/PTO		Complete is	f Known	
	INFOR	ΛΛΔ	TION DISCLOSUR	F	Application Number	09/844,856
	/N' 5	\			Filing Date	April 26, 2001
/		(use as	ENT BY APPLICAN s many sheets as necessary)	First Named Inventor:	J.J. Garcia-Luna- Aceves	
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	de la	E/			Examiner Name	Chankong, Dohm
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			U.S. PATEN	T DOCUMENTS	3	
Examiner Initials*	Cite No.	Num	Document Number ber-Kind Code ² (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-	5,088,032	2/11/1992	Bosack	
		US-	5,115,495	5/19/1992	Tsuchiya et al.	
		US-	5,774,668	6/30/1998	Choquier et al.	
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		FO	REIGN PATENT	DOCUMENTS		
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
•		WO 01/18641 A1	3/15/2001	McCanne et al.		
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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				Filing Date	April 26, 2001
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Cite No.1	Num	Document Number ber-Kind Code ² (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	US-	US 2001/0056416 A1	12/27/2001	Garcia-Luna-Aceves	
	US-	US 2002/0007413 A1	1/17/2002	Garcia-Luna-Aceves et al.	
	US-	US 2002/0010737 A1	1/24/2002	Garcia-Luna-Aceves et al.	
	US-	US 2002/0163889 A1	11/7/2002	Yemini et al.	
	US-		2/7/2002	Garcia-Luna-Aceves et al.	
	US-	US 2002-0026511 A1	2/28/2002	Garcia-Luna-Aceves et al.	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				LOSURE	Filing Date	April 26, 2001		
				PLICANT	First Named Inventor:	J.J. Garcia-Luna-Aceves		
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		Internet		n Proc. 6th Worksho	e, "Reduce, reuse, recycle: An ap p Hot Topics in Operating System			
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÷		distribut	ted caching	g on the internet," Te	M. Vin, and Jonathan S. Kay, "Des chnical report, Department of Con u/users /UTCS/techreports/ (Octol	nputer Sciences, University of		
		Heterog Novemb	geneous Tr ber 3, 1999	ransmission Media," 9)	i, "Improving TCP Congestion Cor Proc. IEEE ICNP '99, Toronto, Ca	nada (October 31 to		
		Craig Partridge, Trevor Mendez, and Walter Milliken, "Host Anycasting Service," Network Working Group, RFC" 1546 (November 1993)						
		G. Maclarty, et al., "Policy-based content delivery: an active network approach," Computer Communications 24 (2001), University of Technology, Sydney, Faculty of Information Technology, Australia, Elsevier Science B.V 2001 pp. 241-248 (2001)						
		C. Hedrick, "Routing Information Protocol," XP002233127, Network Working Group, Request for Comments: 1058 (June 1998)						
		Annual	Joint Confe	erence of the IEEE C	on-Layer Anycasting," XP0102519 Computer and Communications Sc EEE Kobe, Japan, pp. 1388-1396	cieties. Driving the		

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INFORMATION DISCLOSURE						Filing Date	April 26, 2001	
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				TF Internet Draft, n March 8, 2002)		s. 4-6, http://www.watersprings.org	g/pub/id/draft-bound-anycast-	
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			ockapetris, ry 1986)	"Domain System	i Ch	anges and Observations," Netwo	rk Working Group, RFC" 973	
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		John Jannotti, et al., "Overcast: Reliable Multicasting with an Overlay Network," Proceedings of OSDI, San Diego, CA (October 2000)						
		of IEEE	ICNP, Osa	aka, Japan (2000))	Deployment and Management Us		
						"Scalable Link-State Internet Rou rotocols (ICNP'98), Austin, Texas		

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Signature	Considered	

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Substitute for Form 1449/PTO

INFORMATION DIS STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known					
Application Number 09/844,856					
Filing Date	April 26, 2001				
First Named Inventor:	J.J. Garcia-Luna-Aceves				
Art Unit	2152				
Examiner Name	Chankong, Dohm				
Attorney Docket Number	5543P006				

Sheet	5		of	5	Attorney Docket Number	5543P006	
				NON PATENT LIT	ERATURE DOCUMENTS		
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published					T ²
	P. Mochapetris, "Domain Names - Concepts and Facilities," RFC 1034 (November 1987)						
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	Stephen Kent and Randall Atkinson, "Security Architecture for the Internet Protocol," RFC 2401 (November 1998)						
	Y. Rekhter and T. Li, "A Border Gateway Protocol 4 (BGP-4)," Network Working Group, Request for Comments: 1771, (March 1995)						
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Summary of USPTO Kind Codes Used on Documents Published Beginning January 2, 2001

WIPO ST.16 Kind Codes	Kind of document	Comments
A1	Patent Application Publication	Pre-grant publication available March 2001
A2	Patent Application Publication (Republication)	Pre-grant publication available March 2001
А9	Patent Application Publication (Corrected Publication)	Pre-grant publication available March 2001
BI	Patent	No previously published pre-grant publication
В2	Patent	Having a previously published pre-grant publication and available March 2001
C1, C2, C3	Reexamination Certificate	Previously used codes B1 and B2 are now used for granted Patents
E	Reissue Patent	No change
н	Statutory Invention Registration (SIR)	No change
P1	Plant Patent Application Publication	Pre-grant publication available March 2001
P2	Plant Patent	No previously published pre-grant publication
• P3	Plant Patent	Having a previously published pre-grant publication and available March 2001
P4	Plant Patent Application Publication (Republication)	Pre-grant publication available after March 2001
Р9	Plant Patent Application Publication (Corrected Publication)	Pre-grant publication available March 2001
S	Design Patent	No change

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Page 1 of 3 2/57

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FEE TRANSMITTAL FOR FY 2006

Effective on 10/01/2005. Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

TOTAL AMOUNT OF PAYMENT (\$) 0.00

Applie	cant claims small entity status	s. See 37 CFR 1.27.	
Attorney Docket No.	5543P006		
Art Unit	2152	_	
Examiner Name	Chankong, Dohm	_	
First Named Inventor _	J.J. Garcia-Luna-Aceves	_	
Filing Date	April 26, 2001	_	
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1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Large	Entity	<u>Small</u>	Entity		
Fee	Fee	Fee	Fee		
Code	(\$)	Code	(\$)	Fee Description	Fees Paid (\$)
1011	300	2011	150	Utility application filing fee	
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1311	200	2311	100	Utility examination fee	
1012	200	2012	100	Design application filing fee	
1112	100	2112	50	Design search fee 430/2	
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Fee	Fee	Fee	Fee	
Code	(\$)	Code	(\$)	Fee Description
1202	50	2202	25	Each claim over 20
1201	200	2201	100	Each independent claim over 3
1203	360	2203	180	Multiple dependent claims, if not paid
1204	200	2204	100	Reissue: each claim over 20 and more than in the original patent
1205	50	2205	25	Reissue: each independent claim more than in the original patent
1				

SUBTOTAL (2) \$ 0.00

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total She	<u>ets</u>	Extra S	<u>Sheets</u>	 of each add'l ction thereof		Fee from below	Fees paid (\$)
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1082 1083	250 2081 250 2082 250 2083 250 2084	125 125 125 125	Utility Design Plant Reissue				

SUBTOTAL (3) \$ 0.00

FEE CALCULATION (continued) 4. OTHER FEE(S) Fees Paid (\$) Non-English Specification, \$130 fee (no small entity discount) Large Entity Small Entity Fee Fee Fee Fee Code Code (\$) Fee Description 181 Surcharge - late filing fee or oath 130 2051 1051 65 2052 25 Surcharge - late provisional filing fee or cover sheet 1052 50 1053 130 1053 130 Non-English specification 1812 2,520 1812 2,520 For filing a request for ex parte reexamination 1813 8,800 1813 8,800 Request for inter parties reexamination 1804 920* 1804 920* Requesting publication of SIR prior to Examiner action 1805 1,840* 1805 1,840* Requesting publication of SIR after Examiner action 1251 120 2251 60 Extension for reply within first month 225 Extension for reply within second month 1252 450 2252 510 Extension for reply within third month 1253 1,020 2253 1254 1,590 2254 795 Extension for reply within fourth month 1255 2,160 2255 1.080 Extension for reply within fifth month 1401 500 2401 250 **Notice of Appeal** 1402 500 2402 250 Filing a brief in support of an appeal 1403 1,000 2403 500 Request for oral hearing 1451 1,510 1451 1,510 Petition to institute a public use proceeding 1452 500 2452 250 Petition to revive - unavoidable 1453 1.500 2453 750 Petition to revive - unintentional 1501 1.400 2501 700 Utility issue fee (or reissue) 1502 800 2502 400 Design issue fee 2503 550 1503 1100 Plant issue fee 400 Petitions to the Commissioner (CFR 1.17(f) Group I) 1462 400 1462 1463 200 200 1463 Petitions to the Commissioner (CFR 1.17(g) Group II) 1464 130 1464 130 Petitions to the Commissioner (CFR 1.17(h) Group III) 1807 50 1807 50 Processing fee under 37 CFR 1.17(q) 1806 180 1806 180 Submission of Information Disclosure Stmt 8021 40 8021 40 Recording each patent assignment per property (times number of properties) 1809 790 2809 395 For filing a submission after final rejection (see 37 CFR 1.129(a)) 1814 130 2814 65 Statutory Disclaimer 1810 2810 395 For each additional invention to be examined 790 (see 37 CFR 1.129(b)) 1801 790 2801 395 Request for Continued Examination (RCE) 900 1802 900 1802 Request for expedited examination of a design application 1504 300 1504 300 Publication fee for early, voluntary, or normal pub. 1505 300 1505 300 Publication fee for republication 1803 130 1803 130 Request for voluntary publication or republication 1808 130 1808 130 Processing fee under 37 CFR 1.17(i) (except provisionals) 1,370 1454 1454 1,370 Acceptance of unintentionally delayed claim for priority Other fee (specify) Other fee (specify) SUBTOTAL (4) \$ 0.00 *Reduced by Basic Filing Fee Paid SUBMITTED BY: Typed or Printed Name; Lester J. Vincent Date: October 31, 2006 Signature: **Reg. Number:** 31,460 **Telephone Number:** 408-720-8300

Send to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450



FEE TRANSMITTAL FOR FY 2006

3 1 1000	E) E	Effective or	10/01/20	05. Fees pursuant to the Consolidate		4818).				
	<u>\$</u> /			·						
FORES	S IF K	· AMA		TOTAL AMOUNT OF PAYM	IENT (\$) <u>U.UU</u>					
Applica	tion No	10WII.	09/84	4 856						
Filing D				4,838 26, 2001						
		ventor		arcia-Luna-Aceves						
Examin				kong, Dohm						
Art Unit			2152	tong, comi						
Attorne		et No	5543F	2006						
	Applicant claims small entity status. See 37 CFR 1.27.									
METHO	METHOD OF PAYMENT (check all that apply) Check Credit Card Money Order _X None Other (please identify)									
	Deno	sit Accou	·nt							
	_ neho			nt Number : <u>02-2666</u>						
				nt Number : <u>02-2666</u> nt Name:						
х	The Di			zed to do the following with res	nect to the above-identified	Denosit Account:				
	1114 =			ndicated below.	peor to the above lacilling	Deposit Account				
	X	_		tional fee(s) or underpayment of fee	e(s) during the pendency of this	s application.				
				ndicated below except for the fi		a white are a real				
	$\frac{X}{X}$	Credit	any over	rpayments.						
	X	Any cor	ncurrent o	or future reply that requires a petition	on for extension of time should	l be treated as				
		incorpo	rating an	appropriate petition for extension of	of time and all required fees sh	ould be charged.				
***ina		· +1	· · · · · · · · · · · · · · · · · · ·	*	er e					
				nay become public. Credit card info authorization on PTO-2038.	ormation should not be include	ed on this form.				
PIOVIGE .	Sreun ou	ara mnom.	auon and	authorization on F10-2030.						
FEE CA	ALCUL	ATION.								
1 BAS	IC FIL	ING SE	ARCH.	AND EXAMINATION FEES						
· <u></u>	10	1110,	7110	THE EXAMINATION						
Large E	ntity	Small E	Entity							
Fee	Fee	Fee	Fee							
Code	(\$)	Code	(\$)	Fee Description		Fees Paid (\$)				
1011	300	2011	150	Utility application filing fee						
1111	500	2111	250	Utility search fee	1,000/500					
1311	200	2311	100	Utility examination fee						
				-	}					
1012	200	2012	100	Design application filing fee	J					
1112	100	2112	50	Design search fee	430/215					
1312	130	2312	65	Design examination fee]					
	_			-	>					
1013	200	2013	100	Plant filing fee	J					
1113	300	2113	150	Plant search fee	660/330					
1313	160	2313	80	Plant examination fee	<u></u>					
		-334		-						
1004	300	2004	150	Reissue filing fee	· ·					
1114	500	2114	250	Reissue search fee	1,400/700					
1314	600	2314	300	Reissue examination fee	<u> </u>					
					ſ					
1005	200	2005	100	Provisional application filing f	ree .					
					SUBTOTAL (1) \$ <u>(</u>	0.00				

2.	EX	CE	SS C	LAIN	1 FEES

	Extra Claims	Fee from <u>below</u>	Fees Paid (\$)
Total Claims HP = highest number of to	- 20 or HP = tall claims paid for, if greater than 20	х	_ =
Independent Claims		х	_ =
Multiple Dependent Cla	ims		_ =

Large Entity		Small Entity		
Fee	Fee	Fee	Fee	
Code	(\$)	Code	(\$)	Fee Description
1202	50	2202	25	Each claim over 20
1201	200	2201	100	Each independent claim over 3
1203	360	2203	180	Multiple dependent claims, if not paid
1204	200	2204	100	Reissue: each claim over 20 and more than in the original patent
1205	50	2205	25	Reissue: each independent claim more than in the original patent

SUBTOTAL (2) \$ 0.00

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets				Extra	<u>Sheets</u>	Number of each add'l 50 or fraction thereof			Fee from below Fees paid (\$)	
			- 100 =	=	/ 50 =		_ (round up to whole number)	X		
	<u>Large E</u>		Small							
	Fee	Fee	Fee	Fee			oplication size fee for ea		-	•
	Code	(\$)	Code	(\$)	beyona initi	iai 100 Si	heets (count spec & drawin	gs e	xcept sequent	ces & program listings):
	1081	250	2081	125	Utility					
	1082	250	2082	125	Design					
	1083	250	2083	125	Plant					
ı	1084	250	2084	125	Reissue					

SUBTOTAL (3) \$ 0.00

FEE (CALCULA	TION (co	ntinued)					
4. <u>0</u>	THER FE	<u>E(S)</u>						
					Fees Paid (\$)			
Non-E	inglish Spe	ecification	, \$130 fee	(no small entity discount)				
Large	Entity	Small E	intity					
Fee	Fee	Fee	Fee					
Code	(\$)	Code	(\$)	Fee Description				
1051 1052	130 50	2051 2052	65 25	Surcharge - late filing fee or oath Surcharge - late provisional filing fee or cover sheet				
1052	130	1053	130	Non-English specification				
1812	2,520	1812	2,520	For filing a request for ex parte reexamination				
1813	8,800	1813	8,800	Request for inter parties reexamination				
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action				
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action				
1251	120 450	2251 2252	60 225	Extension for reply within first month Extension for reply within second month				
1252 1253	1,020	2252	510	Extension for reply within second month				
1254	1,590	2254	795	Extension for reply within fourth month				
1255	2,160	2255	1,080	Extension for reply within fifth month				
1401	500	2401	250	Notice of Appeal				
1402	500	2402	250	Filing a brief in support of an appeal				
1403	1,000	2403	500 1.510	Request for oral hearing				
1451 1452	1,510 500	1451 2452	1,510 250	Petition to institute a public use proceeding Petition to revive – unavoidable				
1453	1,500	2453	750	Petition to revive - unintentional				
1501	1,400	2501	700	Utility issue fee (or reissue)				
1502	800	2502	400	Design issue fee				
1503	1100	2503	550	Plant issue fee				
1462	400	1462	400	Petitions to the Commissioner (CFR 1.17(f) Group I)				
1463 1464	200 130	1463 1464	200 130	Petitions to the Commissioner (CFR 1.17(g) Group II) Petitions to the Commissioner (CFR 1.17(h) Group III)				
1807	50	1807	50	Processing fee under 37 CFR 1.17(n) Group in				
1806	180	1806	180	Submission of Information Disclosure Stmt				
8021	40	8021	40	Recording each patent assignment per				
}				property (times number of properties)				
1809	790	2809	395	For filing a submission after final rejection				
1814	130	2814	65	(see 37 CFR 1.129(a)) Statutory Disclaimer				
1810	790	2810	395	For each additional invention to be examined				
10.0	7 00	2010	000	(see 37 CFR 1.129(b))				
1801	790	2801	395	Request for Continued Examination (RCE)				
1802	900	1802	900	Request for expedited examination of a design				
4504	200	4504	200	application				
1504 1505	300 300	1504 1505	300 300	Publication fee for early, voluntary, or normal pub. Publication fee for republication				
1803	130	1803	130	Request for voluntary publication or republication				
1808	130	1808	130	Processing fee under 37 CFR 1.17(i) (except provisionals)				
1454	1,370	1454	1,370	Acceptance of unintentionally delayed claim for priority				
Other	fee (specif	·v)						
Culei	Other fee (specify)							
*Reduced by Basic Filing Fee Paid								
SUBMITTED BY:								
Typed or Printed Name; Lester J. Vincent								
Signature: Date: October 31, 2006								
Ren !	Number:	<i>V</i> 31 460	V.	Telephone Number: _408-720-83	00			
iveg. i	14111DE1.	<u> </u>			<u> </u>			

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